FULL-TIME RESEARCH AND TEACHING ASSISTANT POSITION

IN CHEMISTRY

BRUSSELS SCHOOL OF ENGINEERING

Reference : 2019/S077
Application deadline: 30/04/2019
Start date : 01/10/2019

Job Description

Teaching

1) Supervision (in French) of general chemistry exercises (72h) and laboratories (144h) sessions in 1st year of the bachelor’s degree in engineering sciences, civil engineering orientation (course CHIM-H1001 Chimie générale et applications industrielles); coordination of the teaching team, preparation and correction of written exams (exercises part), etc.

2) Supervision (in French) of exercises sessions (about 30h) of introduction to applied sciences in 1st year of the bachelor’s degree in engineering sciences, civil engineering orientation (course TRAN-H100 Introduction aux sciences appliquées, y compris l’anglais).

Research

Completion of a PhD thesis (in engineering sciences and technology, or in agronomic sciences and biological engineering) in one of the following topics:

- mathematical modeling of biological systems;
- optimization, control and state estimation of biological processes (cultures in bioreactors);
- analysis of biological networks.

Skills required

Required education level

Master’s degree in chemical engineering or in biochemical engineering or in chemical sciences

Teaching

Very good knowledge of general chemistry concepts and their use for solving exercises and working in laboratories; pedagogical skills; team working.
Research

Good knowledge in mathematical modeling, systems dynamics and control engineering applied to biological systems; skills in computer programming (Matlab).

Courses covered

CHIM-H1001 Chimie générale et applications industrielles
TRAN-H100 Introduction aux sciences appliquées, y compris l’anglais

Interested?

For more information, please contact Mr. Philippe BOGAERTS (telephone: +32 2 650.40.76 – E-mail: philippe.bogaerts@ulb.ac.be).

Applications must be sent by e-mail to the rectorate of the Université Libre de Bruxelles (recteur@ulb.ac.be) and to the faculty deanship le-doyen-polytech@admin.ulb.ac.be.

They must include the following:

- a motivation letter
- a Curriculum vitae including a list of publications (a template can be downloaded at http://www.ulb.ac.be/tools/CV-type.rtf)
- a note on the applicant’s PhD research project (4 pages)
- two letters of reference

By sending in their application, applicants acknowledge they have read and understood the additional information and the regulations relevant to research staff, available at the following address http://www.ulb.ac.be/emploi/academique.html.